

## IN THE UNITED STATES

## PATENT AND TRADEMARK OFFICE

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## Patent Application

Inventor(s): George Earl Peterson Case: 18  
Serial No.: 09/915,963 Filing Date: July 26, 2001  
Examiner: Shih Chao Chen Group Art Unit: 2821  
Title: Broadband Polling Structure

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SIR:

AMENDMENT AFTER FINAL REJECTION

In response to the FINAL Office action of September 26, 2002, please amend the above-identified application as follows:

IN THE CLAIMS

## Replacement claim 1:

- 1 1. An antenna structure comprising:
- 2 at least one antenna element, the at least one antenna element having at
- 3 least one taper; and
- 4 a symmetrical, finite ground plane coupled with the at least one antenna
- 5 element.

## Replacement claim 11:

- 1 11. An antenna structure comprising:
- 2 an array of at least two antenna elements, each antenna element having
- 3 at least one taper;
- 4 a symmetrical, finite ground plane; and
- 5 an unbalanced impedance for coupling the array of at least two antenna
- 6 elements with the symmetrical ground plane.

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